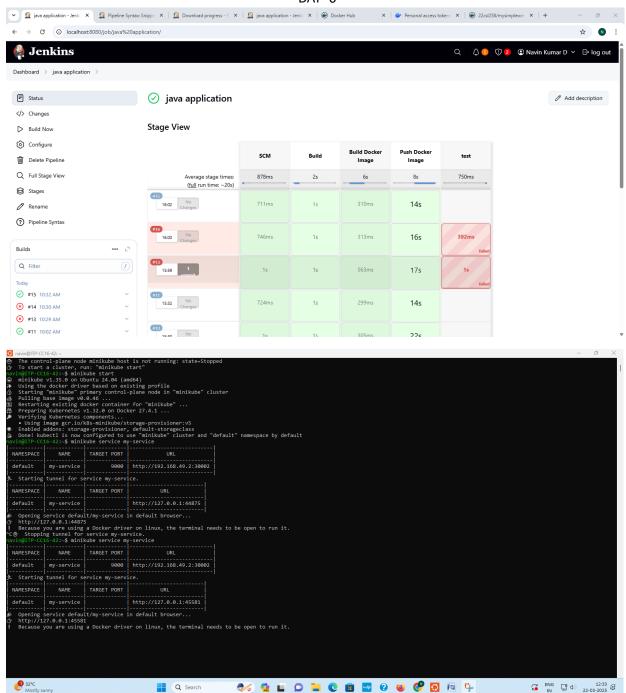
FINAL PROJECT

JAVA Application Minikube deployment

DAY-6

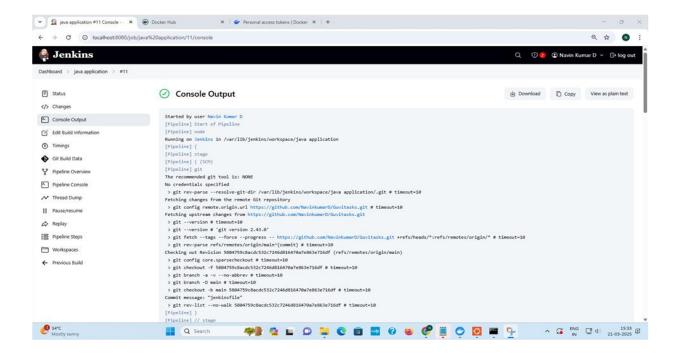


```
Pipeline script
   Pipelinescript-
   jenkins
   JAVAApplicatio
   n pipeline {
     agent any
     stages { stage('scm'){
          steps{
       gitbranch:"
          }
        stage('builb
          -clean'){
          steps {
           sh"mvn clean"
   }
   }
        stage('build-
          validate'){
          steps {
           sh"mvn validate"
```

```
}
}
    stage('buil
      d-com'){
      steps {
        sh"mvn compile"
}
}
    stage('buil
      d-test'){
      steps {
        sh"mvn test"
}
}
    stage('build-
       install'){
      steps {
        sh"mvn package"
}
}
stage('buildtoima
      ges'){
      steps {
        script{
```

```
sh'docker build-t.'
         }
  }
}
stage('pushtohub
       script{
          withDockerRegistry(credentialsId:'Docker_cred',url: <a href="https://index.docker.io/v">https://index.docker.io/v</a>
           1/'){ sh 'docker push '
         }
       }
       }
}
    stage('Deploy
       App'){ steps
       {
         withKubeConfig(caCertificate:",clusterName:'minikube',contextName:'minikube',
credential sld: 'mukube config\_011', name space: '', restrict Kube Config Access: false, server Url:
         sh'kubectlapply -fdeployment.yml --validate=false'
       }
    }
  stage('Test'){ steps {
```

}



Deployment.yml

```
apiVersion:ap
ps/v1 kind:
Deployment
metadata:
  name: my-
  deploy
  namespace:m
  y-bank
  labels:
    name:my-
deploy spec:
  replicas:1
  selector:
    matchLabels:
      apptype:web-
  backend strategy:
    type:RollingUpdate
  template:
    metadata: labels:
        apptype:web-
    backend spec:
```

```
containers:
          -name:my-web
            image:22cs1258/mysimplewebapplication:tagnam
            e ports:
            -containerPort:9001
   apiVersion:
   v1 kind:
   Service
   metadata:
     name: my-
     service
     namespace:m
     y-bank
     labels:
       app:my-
   service spec:
     type:NodePo
     rt ports:
       -port:9001
          targetPort:8080
Service.yml
apiVersion: apps/v1
kind: Deployment
metadata:
 name: my-deploy
 labels:
  name: my-deploy
spec:
 replicas: 1
 selector:
  matchLabels:
   apptype: web-backend
 strategy:
  type: RollingUpdate
 template:
  metadata:
   labels:
    apptype: web-backend
  spec:
   containers:
   - name: my-app
    image: 22csl258/simplewebapp:latest
    ports:
```

- containerPort: 9000

apiVersion: v1 kind: Service metadata:

name: my-service

labels:

app: my-service

spec:

type: NodePort

ports:

- port: 9000

targetPort: 8080 nodePort: 30002

selector:

apptype: web-backend

